

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/05103

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> A61B5/055, G01R33/561

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> A61B5/055, G01R33/20

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Toroku Jitsuyo Shinan Koho 1994-2003  
Kokai Jitsuyo Shinan Koho 1971-2003 Jitsuyo Shinan Toroku Koho 1996-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	Klaas P. Pruessmann et al., SENSE: Sensitivity Encoding for Fast MRI, MAGNETIC RESONANCE IN MEDICINE, November 1999, Vol.42, No.5, pages 952 to 962, particularly, page 956, Determination of Sensitivity Maps; page 959, Sensitivity Maps	1-5, 8-16 6, 7
Y	WO 01/41639 A1 (Hitachi Medical Corp.), 14 June, 2001 (14.06.01), Page 10, line 9 to page 11, line 5; page 12, line 15 to page 13, line 8; Figs. 6, 7, 9 & JP 2001-161657 A	6, 7
A	JP 2001-198108 A (Marconi Caswell Ltd.), 24 July, 2001 (24.07.01), Full text; Figs. 1 to 12 & EP 1102076 A2 & US 6396269 B1	1-16

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier document but published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search  
13 June, 2003 (13.06.03)

Date of mailing of the international search report  
01 July, 2003 (01.07.03)

Name and mailing address of the ISA/  
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 08-191824 A (Toshiba Corp.), 30 July, 1996 (30.07.96), Column 5, line 46 to column 6, line 37 (Family: none)	1-16
P,X	US 2002/0171422 A1 21 November, 2002 (21.11.02), Par. Nos. [0014] & US 6559642 B2	1-16
A	Klaas P. Pruessmann et al., Coil Sensitivity Maps for Sensitivity Encoding and Intensity Correction, 1998, ISMRM, page 2087	1-16
A	J.B. Ra et al., Fast Imaging Using Subencoding Data Sets from Multiple Detectors, MAGNETIC RESONANCE IN MEDICINE, July 1993, Vol.30, No.1, pages 142 to 145	1-16